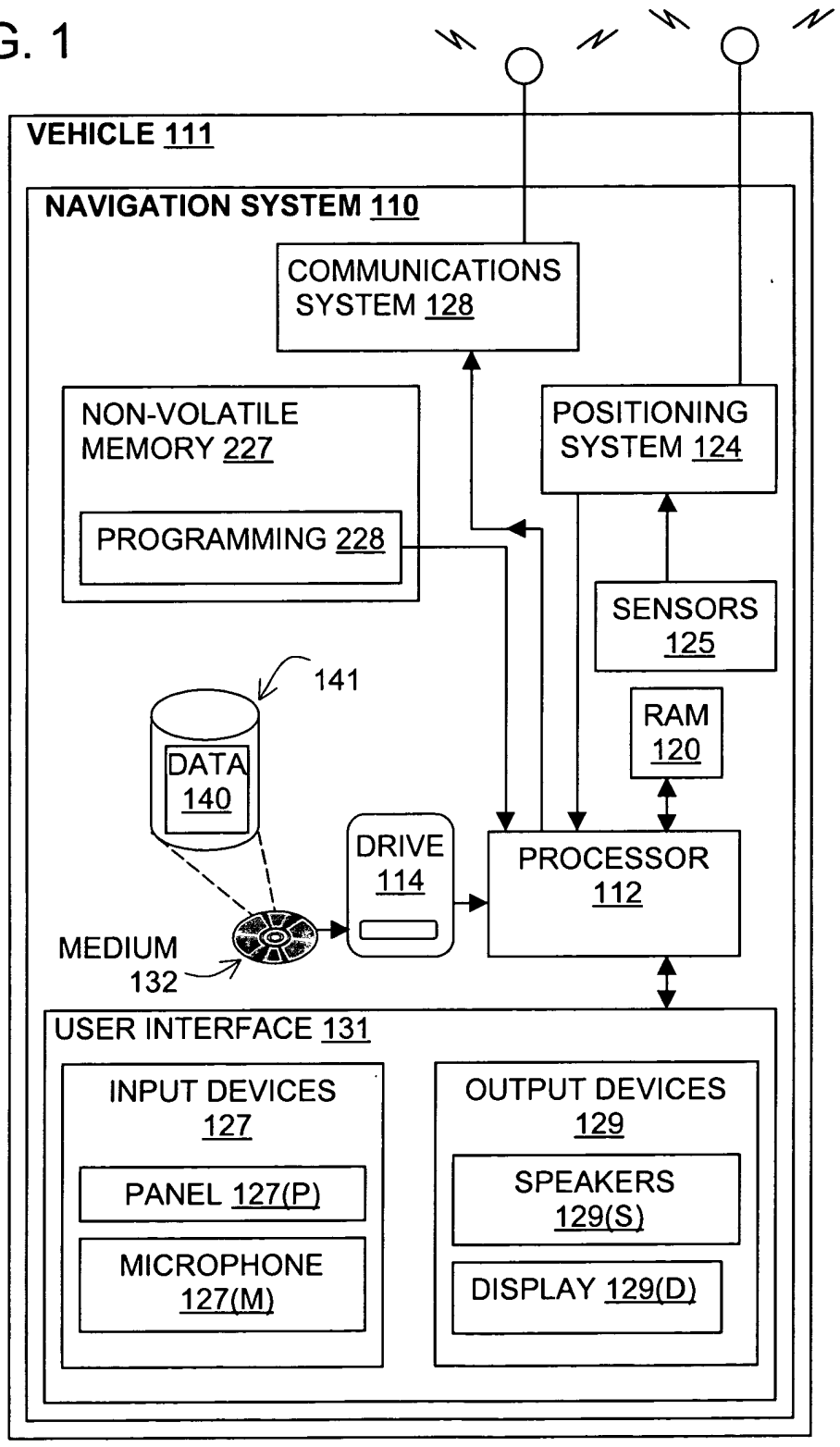
FIG. 1


VEHICLE 111
NAVIGATION SYSTEM 110
COMMUNICATIONS SYSTEM 128
NON-VOLATILE MEMORY 227
PROGRAMMING 228
POSITIONING SYSTEM 124
SENSORS 125
RAM 120
141
DATA 140
DRIVE 114
PROCESSOR 112
MEDIUM 132
USER INTERFACE 131
INPUT DEVICES 127
PANEL 127(P)
MICROPHONE 127(M)
OUTPUT DEVICES 129
SPEAKERS 129(S)
DISPLAY 129(D)

PATENT APPLICATION

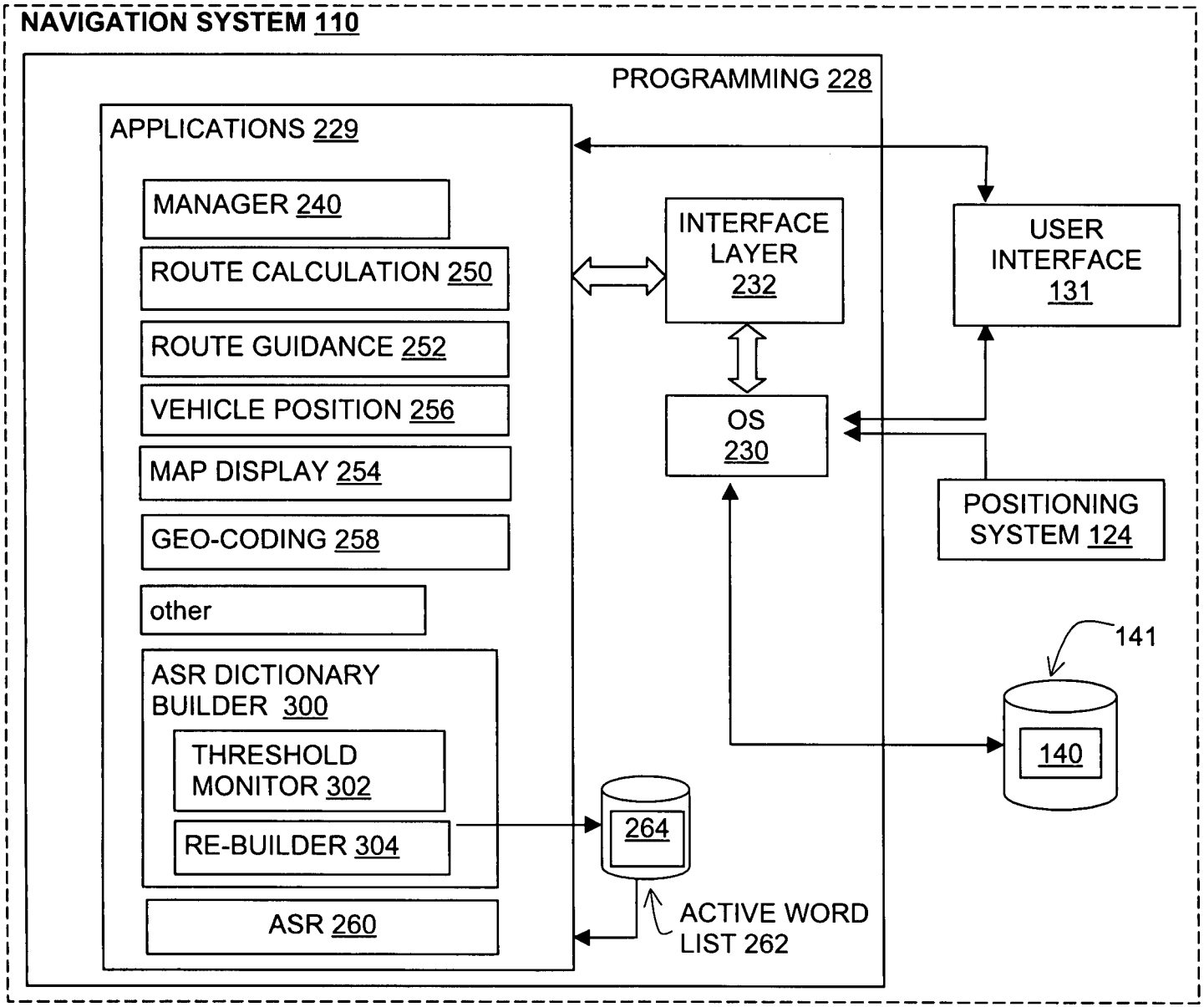


FIG. 2

FIG. 3

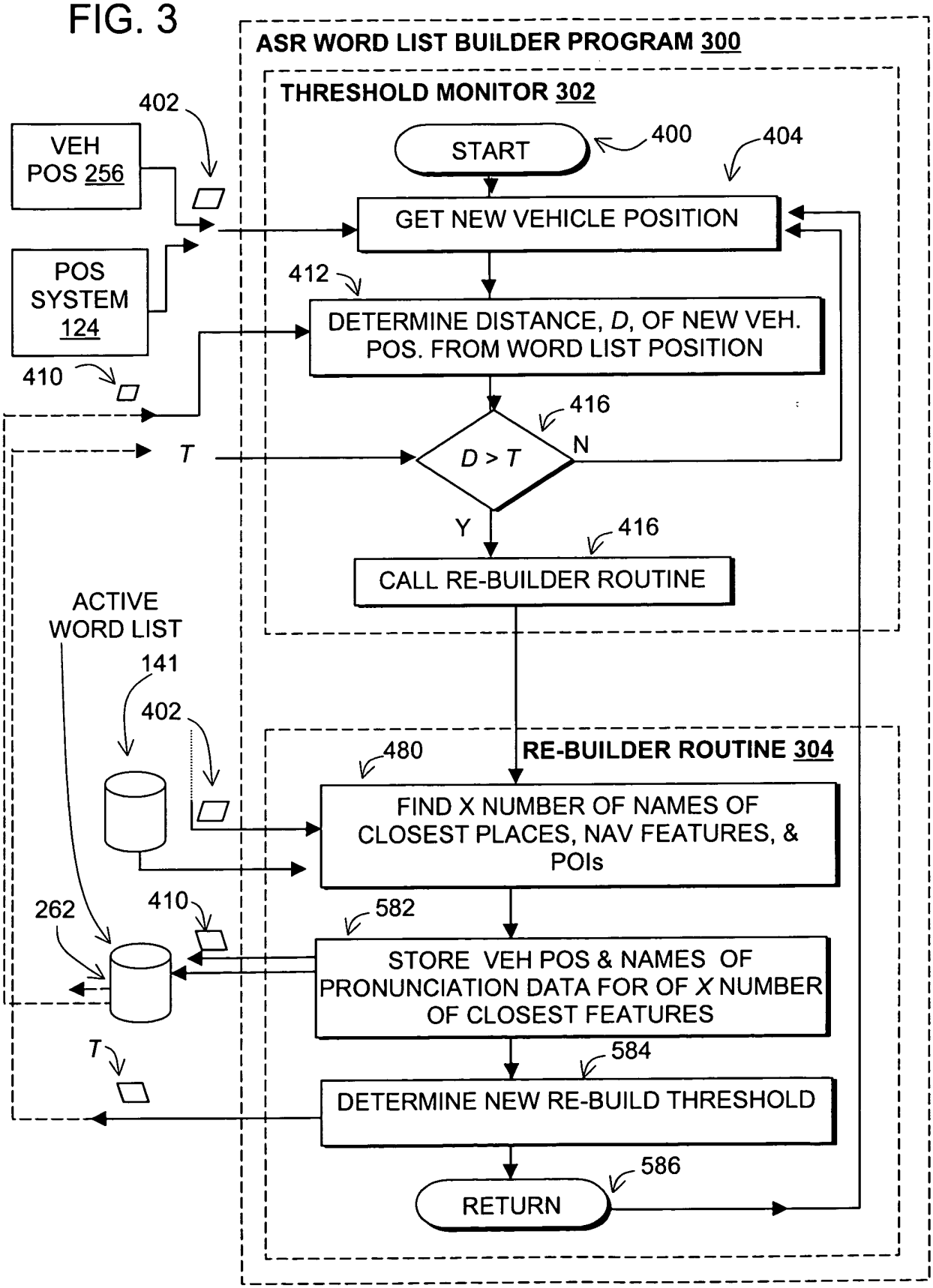

ASR WORD LIST BUILDER PROGRAM 300
THRESHOLD MONITOR 302
402
VEH POS 256
POS SYSTEM 124
410
START
400
404
GET NEW VEHICLE POSITION
412
DETERMINE DISTANCE, D, OF NEW VEH. POS. FROM WORD LIST POSITION
416
T
D > T
N
Y
416
CALL RE-BUILDER ROUTINE
ACTIVE WORD LIST
141
402
480
RE-BUILDER ROUTINE 304
FIND X NUMBER OF NAMES OF CLOSEST PLACES, NAV FEATURES, & POIs
262
410
582
STORE VEH POS & NAMES OF PRONUNCIATION DATA FOR OF X NUMBER OF CLOSEST FEATURES
T
584
DETERMINE NEW RE-BUILD THRESHOLD
586
RETURN

FIG. 4

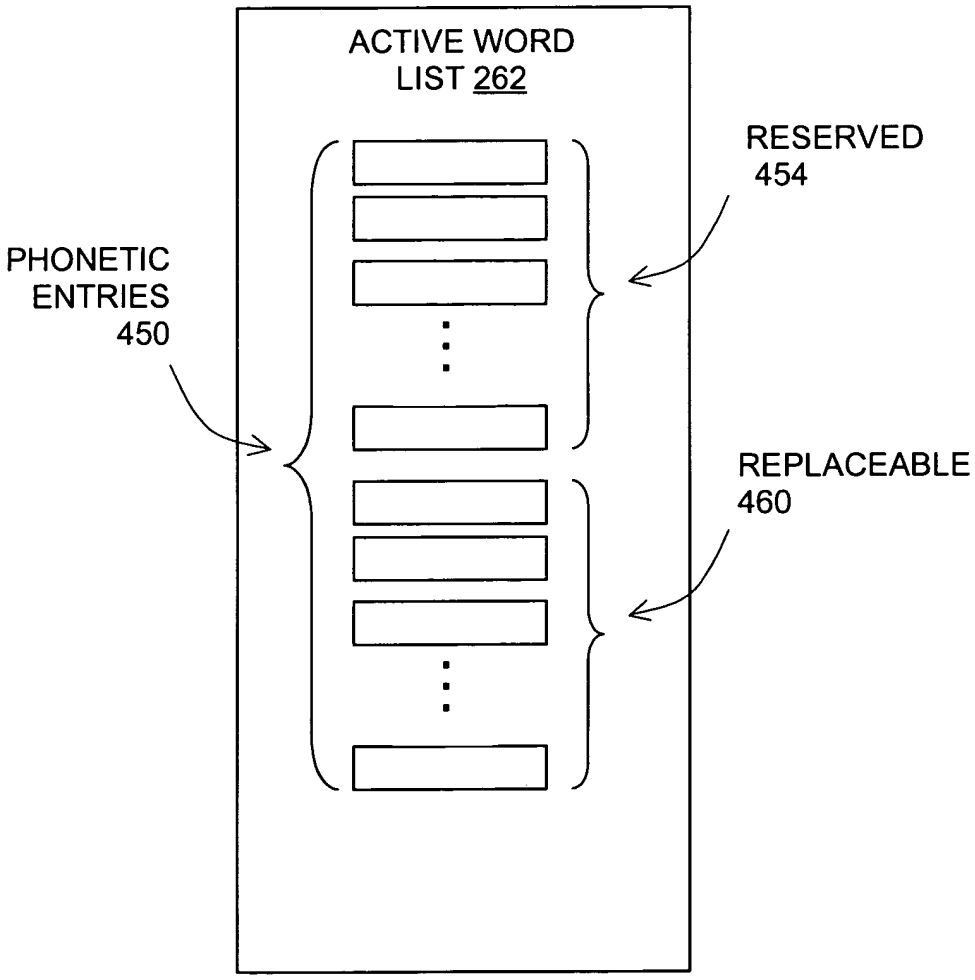

ACTIVE WORD
LIST 262
RESERVED
454
PHONETIC
ENTRIES
450
REPLACEABLE
460

FIG. 5

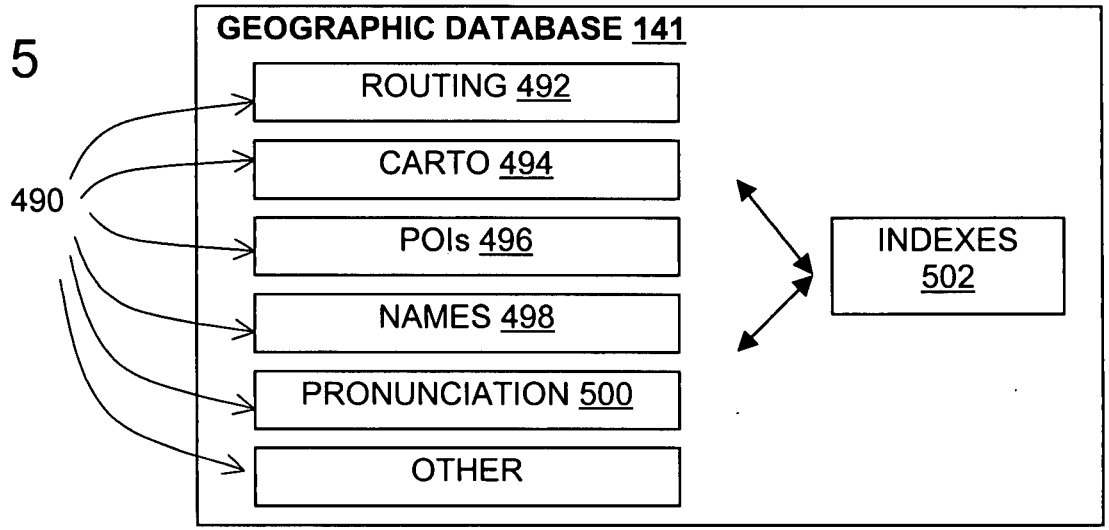
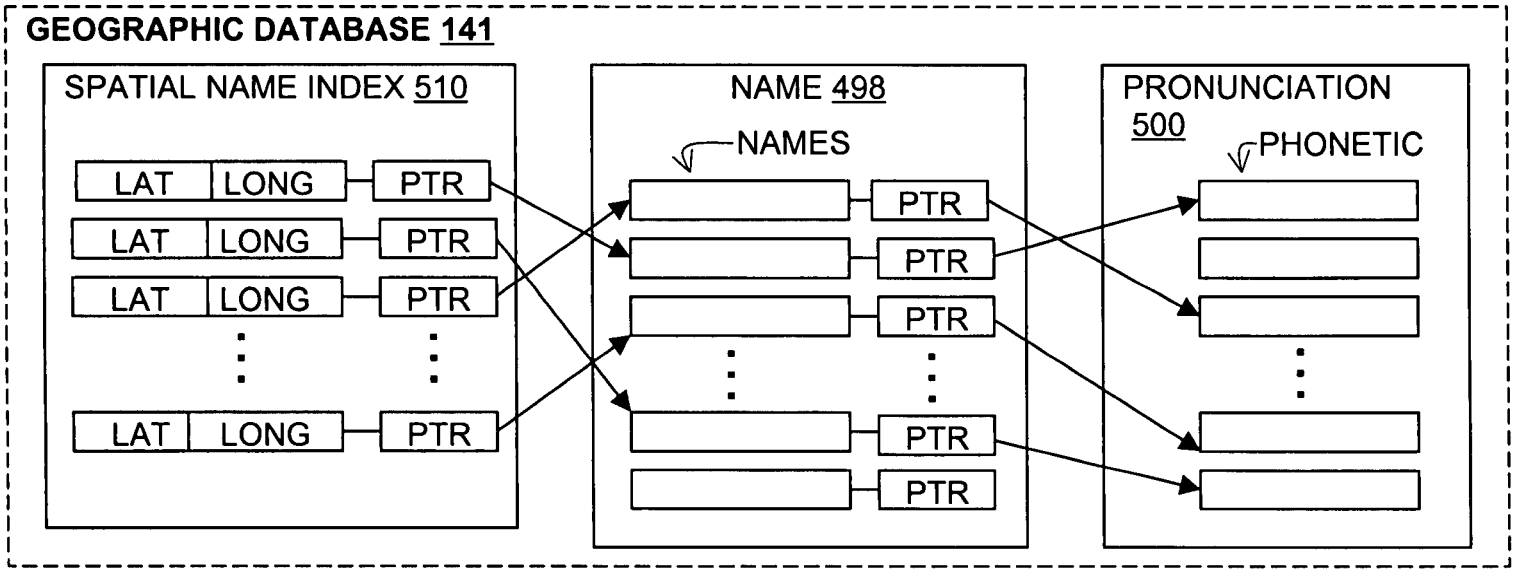

GEOGRAPHIC DATABASE 141
ROUTING 492
CARTO 494
POIs 496
NAMES 498
PRONUNCIATION 500
OTHER
490
INDEXES 502

FIG. 6


GEOGRAPHIC DATABASE 141
SPATIAL NAME INDEX 510
LAT
LONG
PTR
NAME 498
NAMES
PRONUNCIATION 500
PHONETIC

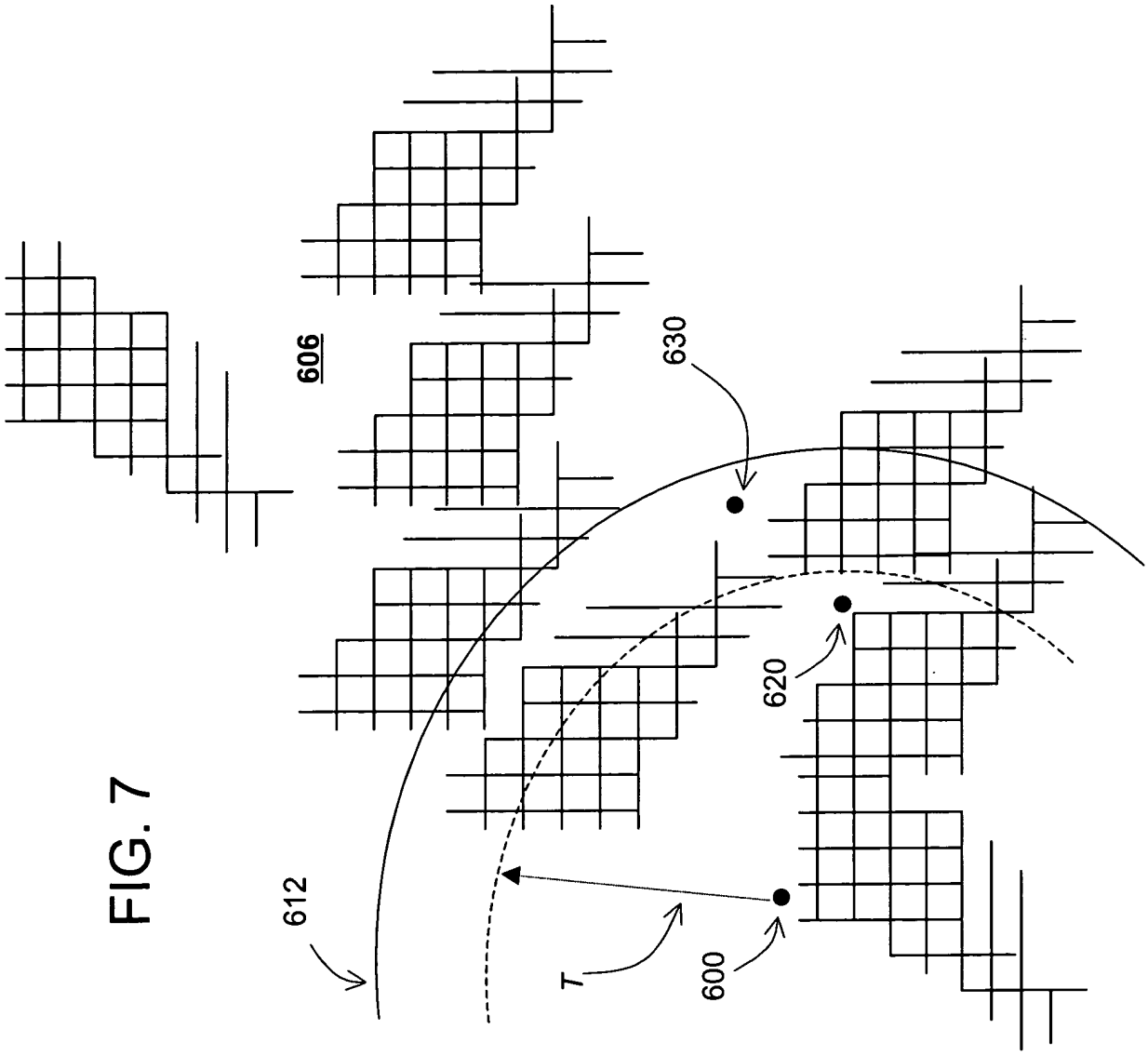
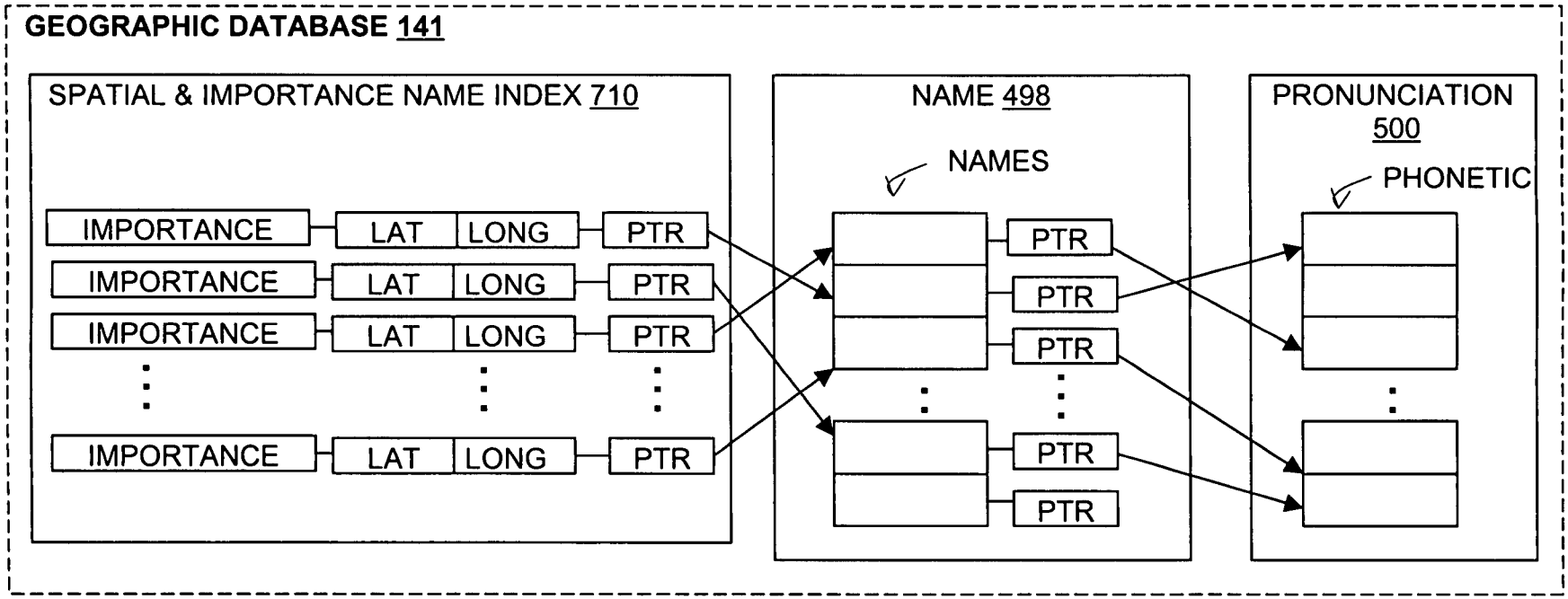


FIG. 7

FIG. 8


GEOGRAPHIC DATABASE 141
SPATIAL & IMPORTANCE NAME INDEX 710
IMPORTANCE
LAT
LONG
PTR
NAME 498
NAMES
PRONUNCIATION 500
PHONETIC

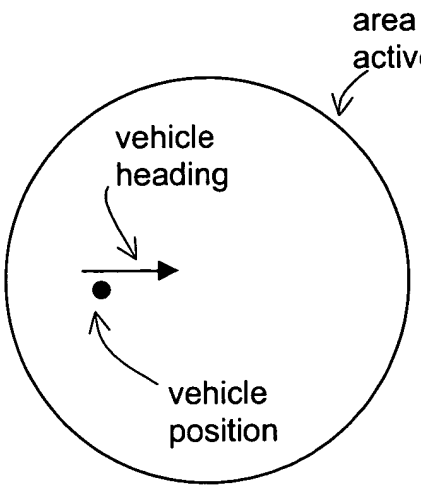


FIG. 9A

FIG. 9B

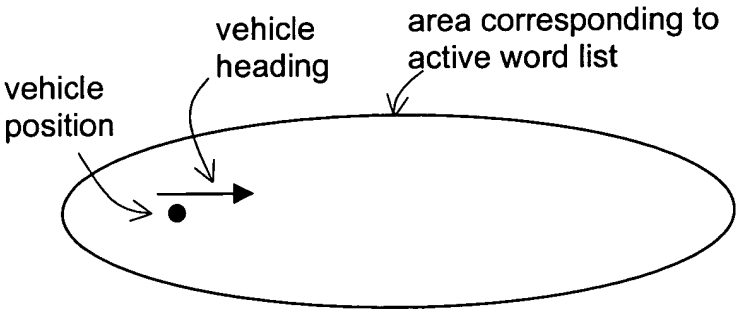


FIG. 9C

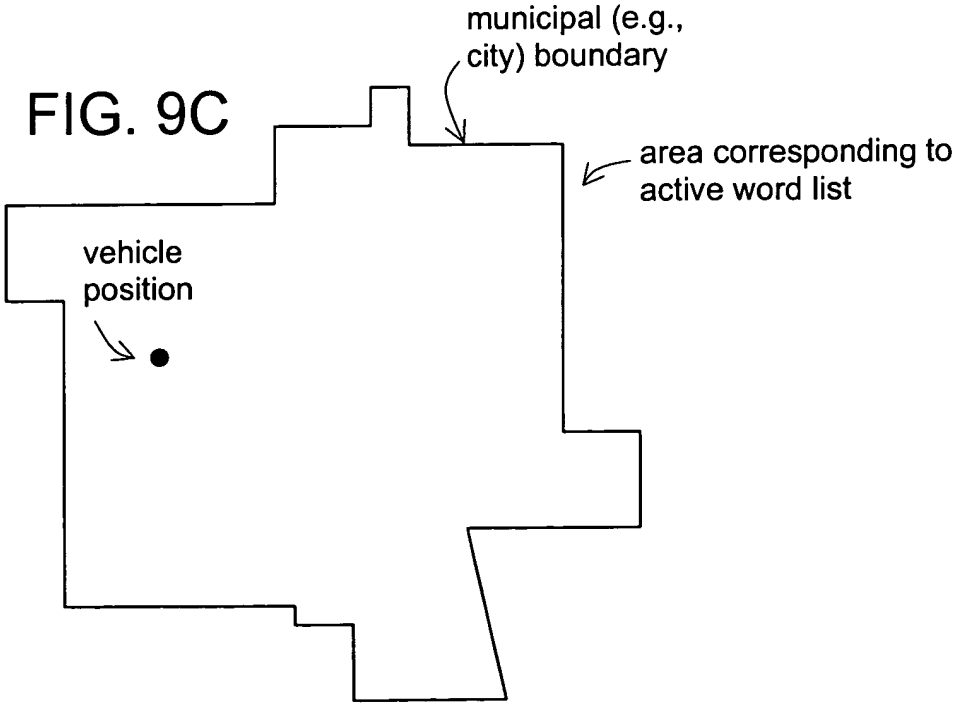


FIG. 9D

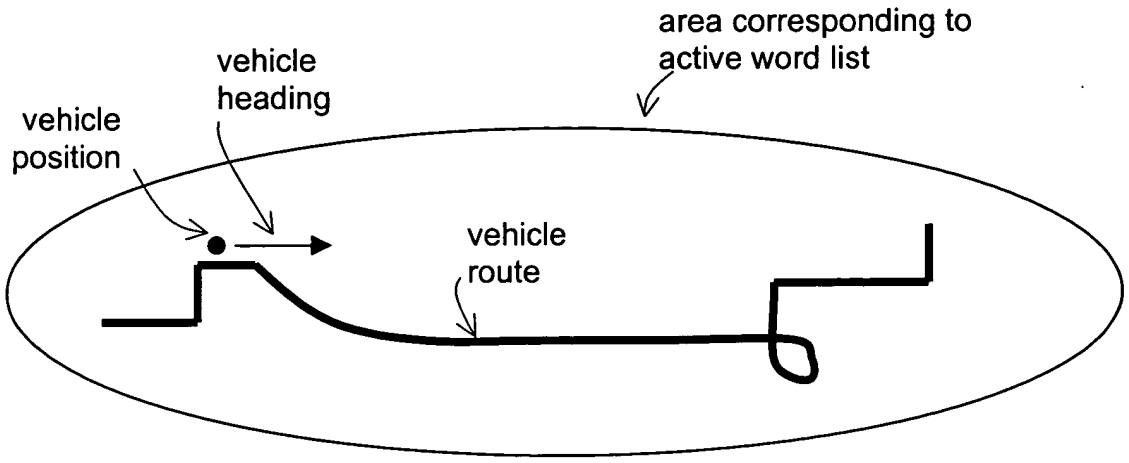
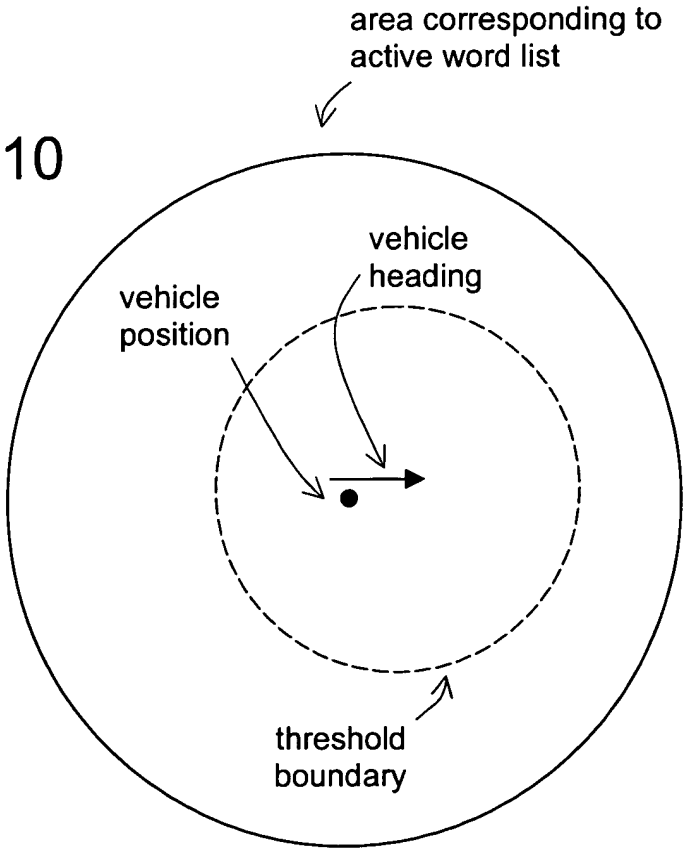

area corresponding to
active word list
vehicle
heading
vehicle
position
vehicle
route

FIG. 10


area corresponding to
active word list
vehicle
heading
vehicle
position
threshold
boundary